BIRDS THE FARMER'S BEST ALLIES IN FIGHT FOR

If They Fall Victim to the Pot Hunter While the Struggle Is On for Larger Crops Nature Will Take Revenge and He Who Fills Pot Today May Go Hungry To-morrow

By HARRY ESTY DOUNCE.

HE law protects our bird life at all times. There are no exceptions but game birds during the stated autumnal seasons and eight or nine blacklisted species considered harmful to man and his works.

There is always a certain amount of violation of this law. Most offenders caught with protected small birds are either boys who have more normal and valuable cutdoor instinct than enlightmment or recently immigrated European peasant folk, who were free to shoot anything and everything for the pot in their native country and have yet to learn better in this.

But within the list few weeks from the rural districts round about New York have come several reports of the arrest and fining of bird killers who were presumably literate American citizens of the age of common sense.

In one case at least the defence or excuse of the culprit found with dead bluebirds and thrushes and flickers in his p ckets was his family's look him.

case as a symptom is disquieting. If mer or golden winged woodpecker, persons living close to the margin of His plucked body sizes between

has been taught that the farmer and diet of ants. the gardener this year, and probably For the flicker is almost a specific for years to come, are soldiers en against the ant. Unlike our other ever they have been killed or driven scandalized colonists. off a farming region it has been

weeds and destroyers of nexious in-sects, they are worth more times over were found. Another bird killed near than could be computed all the patent, Lincoln, Neb., contained nearly 1,000 wooders and the insect preventives in chinchbugs. on all our lands. And among the kinds of birds particularly valuable says Eaton, "cannot be disputed for an are most of those which by reason of instant. The number of ants destroyed their size, numbers and trustfulness daily by one of these birds is almost would naturally be the targets of the incredible, and we must not think

such feathered allies will be bad busi- doing any serious damage to the vineheaded computation, and the poor who York."

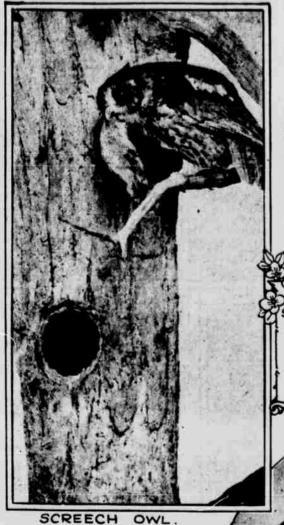
several kinds of sizable birds more or meat for the pot. good to eat are going about in flocks and can most easily be slaugh-

This implies no reflection upon the larly winter through with us. game wardens, the constabulary, the Society and other designated guardians most men reared on farms learned for of those educators of the public about To eat him, however, is not only a RAILROAD of wild life. They do an excellent sernature who are after all the real hope misdemeanor but an injury to the of our birds to be saved. But there Commonwealth

shot sound of every grove and thicket insects. Its vegetable food is com-in his territory. Aside from detective posed of either noxious weeds or waste other country in comfort, and for long

Now here are the names and the ground free from snow. public service records of a few of the "Of the 238 stomachs common birds most likely to suffer all seasons of the year, 178 contained should the foolish and futile mistake remains of grasshoppers and one was was prepared some years ago for the grasshopper month. Forest, Fish and Game Commission and feeding habits of birds common farmer must appreciate.

The lark has two sa



need of meat, which he could no. more monakers than the proudest king afford to buy at current prices, of gunmen. New York farmers call Sentiment about the birds aside, that him highhole, highholder, yellowham-

parsons living close to the margin of subsistence are to turn upon the groves and thickets for nutriment in this food pinch a grave material damber of the subsistence are to turn upon the groves and thickets for nutriment in the subsistence are to turn upon the graves and a pigeon's. Autumns he groves and thickets for nutriment in the subsistence are to turn upon the graves and a pigeon's. Autumns he groves and thickets for nutriment in the subsistence are to turn upon the graves and a pigeon's. Autumns he groves and thickets for nutriment in the subsistence are to turn upon the graves and a pigeon's. Autumns he groves and thickets for nutriment in the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves and the subsistence are to turn upon the graves are to turn upon the grav age may be done our crops and for-ests. wing and fairly edible, although an adult bird is tough and sure to be Everybody accessible to a newspaper strongly sour of fiesh from the favorite

listed for genuine and vital war time wordpeckers, which rarely descend to service. But so are the birds. They are the ground, he is a regular terrestrial the agriculturist's invaluable allies forager and ant hills are his meat. Through years of adjustment to man's. His habit is to stand at attention upon of the cleared countryside they the hill, digging into it if necessary, have come to depend on him; wher- and to dart his sticky tongue at the

proved past question how greatly he a Government scientist, to the effect depends upon their presence. that ants make up nearly half the In the aggregate, as controllers of flicker's diet and that in each of the

merely of the injury which the ants would do directly, but of all the plant Public Opinion Their Chief Guard. lice to whose welfare they administer.

food and more aware of the privations, undisturbed about the premises as of

A Friend and a Poe.

the agents of the Audubon without hazardous disclosure of a fact

and offence of bird poaching for food filled with fragments of thirty-seven tion in the number of passenger trains. become at all prevalent. The facts are of these insects." The report con-drawn from a monograph, or rather a cluded that the grasshopper was the executive committee of the American compilation, entitled "The Economic lark's favorite food when he could get Railway Association, which is practi-Value of Birds to the State," which it, and especially in August, the had cally in centrel of the nation's frans-

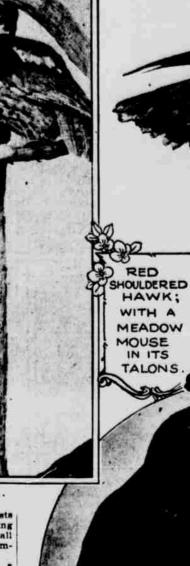
by Dr. Frank M. Chapman of the animal kingdom. Assuming which companies the propriety of arranging American Museum of Natural History is conservative—that an adult lark for a substantial reduction in passenfrom Elon Howard Eston's monumental work on "Birds of New York," and that five pairs of larks nest each
which is Memoir 12 of the State Museason on every good sized New York

season on every g seum, and from several publications farm where they are not persecuted unrestricted competition between the of public opinion, population increased. Farm where they are not persecuted unrestricted competition between the of public opinion, population increased. Farm where they are not persecuted unrestricted competition between the of public opinion, population increased. Farm where they are not persecuted unrestricted competition between the of public opinion, population increased. Farm where they are not persecuted unrestricted competition between the or public opinion, population increased. Farm where they are not persecuted unrestricted competition between the or public opinion, population increased. Farm where they are not persecuted unrestricted competition between the or public opinion, population increased. Farm where they are not persecuted unrestricted competition between the or public opinion, population increased. Farm where they are not persecuted unrestricted competition between the or public opinion in the property of the public opinion in the pub

woodpecker, our biggest down-state of the common hig. snaky keel tailed "black-common hig. snaky keel tailed "black-common



It has to be owned, and may be themselves in their heedless youth.



RED

TALONS

Chapman quotes Prof. F. E. L. Beal,

CROW AND BLUE JAY Thus if hardship comes to suggest to many Americans the expedient of poaching after songbirds for food the certain result will be to intensify hardship. Leaving ethics out of it, to kill such feathered allies will be be able to whose welfare they administer.

"I have never yet heard complaint of the flicker being destructive to charries, currants or cultivated berries, currants or cultivated berries, and although he is fond of wild grapes I have never yet known of his such feathered allies will be be able to whose welfare they administer.

"I have never yet heard complaint of the flicker being destructive to charries, currants or cultivated berries, currants or

such feathered allies will be bad busi- doing any serious damage to the vineness — bad according to the hardest yards in central and western New that fine steel black marsh bugler with to be noticed in this connection and headed computation, and the poor who York."

At present the flicker, a hole nester, eaten, can when flocked in autumn be badour of the magical mandolin, which is being steadily displaced through our slaughtered wholesale with the spread- be tinkles a-wing all the golden May This is not a visionary conception suburbs by the pernicious starling, and ing charge of a shotgun, and although day long happy drunk, like the poet blackbird they have over there, the fa danger. In the first place it seems many a war bit garden is suffering he too takes some toil of the grain he is and clad in a full dress suit he one who served Rostand's need for a surer than death or taxes that by from an adjacent ant hill which would and the corn in ear investigation has wears hind side before. September we shall be worse off for be well policed if the flickers were established his overbalancing worth

Prof. Beal looked into 700 redwings' | The Rice Planter va. Bob. That is bad enough, without interiors. He found that some 13 per September is the time of year when misguided people making the flicker cent of the year's food was grain. For A Friend and a Poe.

tuted only 25 per cent, of the bulk does considerable good by eating bugs popular sentiment than any other.

At the time of Chapman's report of the redwing's food. The rest was and weed seed. But along in July he songster. A good deal of that protec-

deal of corn in the milk and systemati- redwings of the nearby country repair cally raids the nests of his smaller to congregate before going south.

the five months of spring and summer. With us North, besides supplying his number of other birds. when grain was available it constitutions that charms our meadows, he

opinion about the conservation of wild and set sailing of the stiff, cupped sides here fruit being freed or the marshy bollows that dot the grain event, while he is with us he is too stand how much cheap and good food.

Small colonies of redwings dwell in dislike to any one who does not under-comprise more than one-third of the over English eparrow size, which be-that with intelligent care to sides being rarely beautiful and destruction. fat qualis. Around New York these birds in considerable numbers regularly winter through with us.

The marshy hollows that dot the grain over from stand how much cheap and good love the marshy hollows that dot the grain over from is and will continue to be available.

The marshy hollows that dot the grain over from is and will continue to be available.

The marshy hollows that dot the grain over from is and will continue to be available.

The marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from is and will continue to be available.

The poly of the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its and the marshy hollows that dot the grain over from its a

RED WINGED BLACK-BIRD. Then comes our best known native bird, the robin. He isn't a robin at all, if the redbreast of Europe is one: his European counterpart is the dations.

"The robin is too valuable to be executed to the cherry grower, whether seemed to find no more worm they required for internal to be an examination of cubkons.

Examinations of cubkons.

ings, as they did our oriole and a The robin is better protected by other insects are scarce.

MALE AND

FEMALE BOBOLINKS

AND A

PURPLE GRACKLE

"An examination of 330 stomachs mously abundant robins and what we caterpillars to an almost poet one who served Rostand's need for a shows that over 42 per cent, of its want now are staple food crops, and total. scapegrace in the barnyard play. But food is animal matter, while the restince the robin makes so good a show- of caterpillars of various so our big, bourgeois thrush had a ruddy mainder is made up largely of small ing at keeping down their weed rivals nists misnamed him after their long-ings, as they did our oriole and a which are useful ground beetles, taken coat and march (or hop) right behind.

As for the difference is which are useful ground desired, when the band in the vanguard of the agri-

In the second place, it is no very difficult thing for a resident of the outlying or the rural districts to break the game laws about as he feels in some States.

The meadow lark, a bird roughly of the weed seeds and noxious in some States.

The meadow lark, a bird roughly of the spanning no acrious risk of being broughly to book. A game law almost anywhere in the United States is rather a formal recording of public a rather a formal recording of public is rather a formal recording of public.

At the time of Chapman countries was considered and noxious in some States.

(1983) flickers were recognized game in some States.

The Massachusetts ornition and dives seed seeds and noxious in sects.

The Massachusetts ornition and dives seed seeds and noxious in sects.

The Massachusetts ornition and dives seed seeds and noxious in sects.

The Massachusetts ornition and the cherry growers hate him sent of the whole feed, but in August. September and suffered greath for a thief, and a thi

more than 4 per cent, being possibly amateur gardener is likely to find him- nests on the place in a second

Public Opinion Rather Than the Law Is Chief Safe. guard and So the Names and Ser. vice Records of Some of These Feathered First Aids to Agriculture Are Set Down

self unhappily acquainted. The insecin question is the potato bur, properly the Colorado potato beetle.

As soon as the heetle discovered that the potato fields of the cleared East were better pasture than the cockle weeds of his native Western country the rose breasted groupeak in turn discovered that the bestle was just the balanced ration which he and his growing youngkits had been want. ing. Unluckily grosheaks while als ways with us to a certain extent are specially numerous in no one point and they don't work in flocks.

So far as they go, however, save potatoes. Prof. Real, quered by Chapman from an address of the before the New Jersey State Hertural Society, said

"Field observation and status as. amination both show that the man breasted grosbeak makes the Colomb potato beetle the principal part of its food wherever it can be obtained

"A case which came under my own observation will show how those while they do their work. A small find of about a fourth of an acre was visited by a pair of grosbeaks as soon as the potatoes were fairly above the ground At first the beetles increased faster than the birds could destroy them, but after the young of the birds had hatched the beetles began to diminish and by the time the young were abla to fly the field was clear—not a bestle was to be found."

None Marked for Slaughter. Other instances of birds with a spe-

cialized taste in bugs, where has this part of the country me a sorts much alike, the black cultivated varieties. Cultivated fruit cuckoo and the relies amounting to about 25 per cent. was taste runs to tent caterpillars. found in the stomachs in June and tent worm's nest lasts long July, but only a trifle in August, orchard where a cuckoo is area. Wild fruit, on the contrary, is eaten Wheever might shoot one

YELLOW-

BILLED

CUCKOO

every month.'

would probably repent of it street Eaton does not agree with Prof. Beal insectivorous birds do not taste a that planting mulberries near a cherry still, this blunder-in every reorchard will protect the crop from could conceivably be made robins and other cherry eating birds. He points out that the mulberry does olive bird, rather develoke for his not ripen early enough in comparison and his javelin flight through to take away the birds' attention. He growth, and, once you have have admits what every cherry grower to see him rather conspicuous knows namely, that you can't frighten does not call "cuckoo," he come robins out of the trees with any sort nearer than a guttural "kuk-kuk-ku of scarecrow which has ever been de- kuk-kuk" and so on, let off at intervals as if he were a clocke :

"Even if one remains in the tree with a stick of flag, waving it to drive the birds away, they will come and caterpillars web he goes there carry off the fruit in spite of one's by if furtively and campmethodical. Worm after fuzz comes forth and is engulfed. An Enemy of the Potato Bug. Just at present, in the war food these worms than they actual shortage, it does not matter very much,

low. All the writer has even heted every year in spite of the enor- have revealed the remain

Over 19 per cent, and their insect enemies he is entitled pines itself into the birdlining until the lining lo

These few instances take no account of several hundred other birds, hugely and wholly valuable as seed extensions and wholly valuable as seed extensions.

shall not come upon a single

Even if there was at a

tity, and if any bird could be tic ducks which the nouter nation's whole wealth in go

LUXURY THREATENED BY WAR'S DEMANDS of them make all the different world to a fruit culturist's per misdemeaner but an injury to the Commonwealth. "Briefly stated," Prof. Beal wrote in summing up a report on 238 meadow A MERICAN love of luxury has no better example than the passenger Service as That two funning tracks is almost negligible. Senger service provided by the Drovided Home on Mother Country of them make all the difference would be a fruit culturate and the passenger Service as That two funning tracks is almost negligible. The percentage which has more than two funning tracks is almost negligible. The percentage which has more than two funning tracks is almost negligible. The percentage which has more than two funning tracks is almost negligible. The percentage which has more than the passenger train elements and the difference of the percentage which has more than two funning tracks is almost negligible. The percentage which has more than two funning tracks is almost negligible. The percentage which has more than the passenger train elements and the passenger train elements. The percentage which has more than the passenger train elements and the passenger train elements. The percentage which has more than the passenger train elements and the passenger tra

Provided Here as Matter of Course

me. lark autopsies, "more than half railroads of this country. Every one No warden can be daily within gunthe [lark's] food consists of harmful knows that American railway trains

nd feeding habits of birds common farmer must appreciate.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports which it served by from three trains in operation will be a considered that its duty sions.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports.

The first and most obvious economy of the trunk lines of the East, with necessary to care for all the truffic best of life reports.

The first and most obvious economy of the trunk lines of the East, with the birds as with the life and most obvious economy of the trunk lines of the effected by reducing the number of the learn that there were only two or a considerable saving in coal consumptions, and the life in the life and most obvious economy of the trunk lines of the effected by reducing the number of the trunk lines of the effected by reducing the number of the trunk lines of the effected by reducing the number of the trunk lines of the learn that there were only two or a considered that its duty stored the line of the trunk lines of the fourney was generally astonished to the learn that there were only two or a considered that its duty stored the latest the learn that there were only two or a considered that the learn that there were only two or a considered that the latest the learn that there were only two or a considered that its duty the latest the learn that there were o

forced to migrate in cold weather any further than is necessary to find the ground free from snow.

So it came to pass that when the trains, day of the railroad coars came to an In Europe in normal times the serence of the cold as the day of all cars seems to the collected at It has long been held by some railroad cars came to one train and the elimination of even one pass.

So it came to pass that when the twenty-four hours, day of the railroad cars came to an In Europe in normal times the serence of the collected at It has long been held by some railroad cars came to one train and the elimination of even one pass.

So it came to pass that when the twenty-four hours, day of the railroad cars came to an In Europe in normal times the serence of the collected at It has long been held by some railroad cars came to one train and the elimination of even one pass.

So it came to pass that when the twenty-four hours, day of the railroad cars came to an in Europe in normal times the serence of the collected at trains.

So it came to pass that when the twenty-four hours, day of the railroad cars came to an in Europe in normal times the serence of the collected at trains.

So it came to pass that when the trains.

It has long been held by some railroad cars came to an and the elimination of even one pass that when the trains.

So it came to pass that when the trains.

It has long been held by some railroad cars came to an and the elimination of even one pass that when the trains.

So it came to pass that when the trains.

It has long been held by some railroad cars came to an and the elimination of even one pass that when the trains.

So it came to pass that when the trains.

It has long been held by some railroad cars came to an and the elimination of even one pass that when the trains. do sooner or later, and much of the cities seems niggardly in the extreme a day, authority which had once vested in by comparison. London, Manchester

service commissions in the several mercial cities of Great Britain, all lie service commissions in the several mercial cities of Great Britain, all lie service commissions in the several mercial cities of Great Britain, all lie service for separate pasterner trains within a radius of 200 miles and are became more or less a political question of passenger trains within a radius of 200 miles and are lines. Closely review number of Apart from the necessity of moving if brought to market would be a political question of a part from the necessity of moving if brought to market would be a political question of a part from the necessity of moving in the service on branch the line for moving freight. grasshopper month.

Birds are the heaviest eaters in the line war, was to urge upon the various every inhabitant of the district through ient, is equalled by the facilities enwhich the gaudy flier passed; it mat-tered not whether the particular ob-cities of the United States. "5. W

president was the absolute monarch, two on the Erie. Should business or lar issued over his signature as chair-

for freight service.

from a division means a very large utilize every possible food not increase in the capacity of that division for moving freight when the cars family of hirds in the Levi shot sound of every grove and thicket in sects. Its vegetable food is comstory lore about the "silencer." in these days of nitro powder small bird grain, and for powder small bird spiders. A strong point in the bir"s agree to in the powder of a listener across a ten to the great multiplicity of surplicity of insect and spiders. A strong point in the bir"s acre lot. It would be a bad thing to insect and spiders. A strong point in the bir"s acre lot. It would be a bad thing to insect and should be a bad thing to insect and should be a surveyed but generally of all the territory served by he is confronted with a selection of fortysenger service as follow:

"Its vegetable food is comstory lore about the "silencer." in the signature as chair man he proposed readjustment of passsenger service as followe:

"Its vegetable food is comstory lore about the "silencer." in the territory served by her is confronted with a selection of fortysenger service as followe:

"Its vegetable food is comstory lore about the "silencer." in the territory served by her is confronted with a selection of fortysenger service as followe:

"Its vegetable food is comstory lore about the "silencer." in the cars
of it the territory. Aside from detective
story lore about the "silencer." in the cars
of the territory. Aside from detective
story lore about the "silencer." in the condity in comfort, and for long of ither condity in comfort, and for long of the territory served by her is confronted with a selection of fortysenger service as followe:

"Its on the Perish to the Levelling public does not always of the travelling public does not always to the travelling public does not always to play a prominent part in railway to passenger train service and the travelling public does not always to play a prominent part in railway to passenger train service and the travelling public does not always to play a prominent part in advance of these deal occuments of the travelling the forty of the feeding of the travelling public does not alw objectives of half a dozen trains every trains and give up running excursion for periods varying from fifteen minutes to an hour at each meeting point, we probably could not an to every freight train on the division replacing the chickens av-"4. Where practicable substitute by just so much and results in a corthem began to be exercised by public and Liverpool, the three greatest com-service commissions in the several mercial cities of Great Britain, all lie mixed train service for separate pas- responding therease in the capacity of

a view to reducing the number of phases of national defence, the railroads of the nation will face next fall birds and letting emidres "5. Where passenger trains are the no less difficult problems of han- birds would be killed double headed for speed a readjust-dling the transportation, both in men compunction on the pair ment of schedules or cutting off cars and material, of an army of nearly a But nowhere need many where possible will release locomotives million men. Scattered in concentration campe in various parts of the what can be done will "6. Reduce as far as practicable country, most of which will be for substitutes for the foods of Edward Howe Forbush, now State or too much disturbed by the ploughOrnithologist of Massachusetts, who is particularly distinguished among his conferrer for the personal research work he has done in the life histories.

The dot only did the unprentable trains of which will be for the food of three routes. It is a survival of the days when rates were made in the days when rates such as observation cars. In military reasons remote from the control of the days when rates were made in the d luxuries such as observation cars. In military reasons remote from the cen- ways used and have in

citizens of any farm community you hird," and he deserves the black eye he has (actually, by the way, that with a zebra stripe russet back, a white rump patch that twinkles as he files, yellow lined wings and a clamor-out yolic. He is inclined to be friendly wherever he gets decent treatment and nebody much out of doors can over-he gets doors the files of punishes the grain, spoils a nebody much out of doors can over-he gain, spoils a nebody much out of doors can over-he gain, spoils a nebody much out of doors can over-he gain, spoils a nebody much out of doors can over-he gain, spoils a new files and seement in the biasiness. Those were the palmy days of rail-biasines to some extent in the business. Those were the palmy days of rail-biasines to some extent in the business. Those were the palmy days of rail-biasines to some extent in the business.

The traveller between New York and are now organ. The traveller between New York and the other Continental capitals the other Conti arts of the world. The traveller between New York and same conditions prevailed.

The traveller between New York and same conditions prevailed.

Evaluation in other the other Continental capitals the important. The capacity of most to play their part, and are now organ-Really, the world is round from the conditions prevailed.